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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/777,120 02/05/20		02/05/2001	Arie E. Kaufman	AP30612-C-072600.0171	2426	
21003	7590	02/26/2003				
BAKER &	BOTTS		EXAMINER			
30 ROCKE NEW YOR			LIN, JEOYUH			
				ART UNIT	PAPER NUMBER	
				3737		
			DATE MAILED: 02/26/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	─ ─	Applicant(s)					
•		09/777,120	•	KAUFMAN ET AL.					
	Office Action Summary	Examiner		Art Unit					
	•	Jeoyuh Lin		3737					
	The MAILING DATE of this communication app		r sheet with the co		dress				
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status 1)⊠	Responsive to communication(s) filed on <u>05 F</u>	Ephruany 2001							
2a)□		is action is non-f	inal		*				
3)□	Since this application is in condition for allowa			osecution as to th	e merits is				
•	closed in accordance with the practice under	Ex parte Quayle	1935 C.D. 11, 4	53 O.G. 213.	o momo lo				
Disposition of Claims									
,	4)⊠ Claim(s) <u>1-61</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
• —	Claim(s) is/are rejected.								
·	Claim(s) is/are objected to.								
8) Claim(s) <u>1-61</u> are subject to restriction and/or election requirement. Application Papers									
	•	r							
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
The see the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
a) ☐ The translation of the foreign language provisional application has been received.									
15)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)									
2) D Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) <u></u>	Notice of Informal F	(PTO-413) Paper No Patent Application (PT					

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-26, drawn to a method of virtual examination of the bladder, classified in class 600, subclass 407.
 - II. Claims 27-43, drawn to a method of virtual examination of a blood vessel, classified in class 382, subclass 130.
 - III. Claims 44-50, drawn to a method of defining the skeleton for a three dimensional image representation of a hollow object, classified in class 382, subclass 128.
 - IV. Claims 51-60, drawn to a method of computer assisted diagnosis of a region of interest, classified in class 382, subclass 128.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as bladder examination. See MPEP § 806.05(d).
- 3. Inventions I and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the

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particulars of the subcombination as claimed because defining the 3-dimensional image representation of the blood vessel does not require scanning with a contrast agent. The subcombination has separate utility such as surgical planning.

- 4. Inventions I and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as surgical planning. See MPEP § 806.05(d).
- 5. Inventions II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because constructing a virtual image of the lung airways does not require the scanning of an aorta. The subcombination has separate utility such as diagnosing an aneurysm.
- 6. Inventions II and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II has separate utility such as surgical planning. See MPEP § 806.05(d).
- 7. Inventions III and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and

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(2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because constructing a virtual model of the lung does not require diagnosis of aortic abnormality. The subcombination has separate utility such as predicting the severity and the likelihood of abnormality.

- 8. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 9. A telephone call was made to Henry Tang on February 13 to request an oral election to the above restriction requirement, but did not result in an election being made.
- 10. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143). Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeoyuh Lin whose telephone number is (703) 306-5990. The examiner can normally be reached on m-f, 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef can be reached on (703) 308-3256. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-0758 for regular communications and (703) 308-0758 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

TYL

JYL

February 22, 2003

Marvin M. Lateef Supervisory Patent Examiner

Group 3700